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groove and wire

London

1905

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BRITISH STANDARDS

FOR

TROLLEY GROOVE AND WIRE.

LESLIE S. ROBERTSON, M.Inst.C.E.,

Secretary.

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PREFACE.

The Sub-Committee on Electric Tramways was appointed at a Meeting of the Electrical Plant Committee (Sir William Preece, K.C.B., Chairman) held on May 28th, 1903, which appointment was confirmed by the Main Committee on December 8th, 1904.

Standard dimensions and tests for Tubular Tramway Poles have already been agreed upon by the Sub-Committee, and having been confirmed by the Main Committee, were issued in the Report No. 8 entitled British Standard Specification for Tubular Tramway Poles.

The Sub-Committee are at present engaged upon the several questions involved in the standardisation of electrical tramway material. As, however, some time must elapse before a complete report can be presented to the Electrical Plant Committee for adoption and transmission to the Main Committee, it has been deemed advisable, in the interests of the electrical tramway industry, not to delay the publication of the following recommendations with reference to Trolley Groove and Wire.

Having carefully considered the information so courteously placed at their disposal, the Sub-Committee on Electric Tramways have come to the conclusion that no attempt should be made to standardise any particular design or shape of trolley wheel. They have therefore confined themselves to recommending a groove of a certain section, and, at the same time, desire to point out that in recommending this section as standard they are not restricting Engineers to the use of any particular design of wheel, but rather suggesting that the overhead work be so arranged as to permit the standard trolley wheel groove being employed.

With regard to Trolley Wire, it has not been deemed advisable to go further in the direction of standardisation than the recommendation of certain figures for the minimum tensile breaking strength for the gauges of wire in general use.

This Interim Report was adopted by the Electrical Plant Committee at their Meeting on July 14th, 1905.

This Interim Report was approved by the Main Committee at their Meeting held on July 19th, 1905.

A. P. TROTTER,

Chairman of Sub-Committee on Electric Tramways.

ENGINEERING STANDARDS COMMITTEE.

The following is a list of the Members of the Sub-Committee by whom the Standards for Electric Tramway Material are being drawn up.

SUB-COMMITTEE ON ELECTRIC TRAMWAYS.

A. P. TROTTER, Esq., *Chairman.*

F. C. ARMSTRONG, Esq.

JOHN BURBRIDGE, Esq.

PHILIP DAWSON, Esq.

F. FORBES HIGGINSON, Esq.

E. R. HILL, Esq.

J. H. RIDER, Esq.

H. M. SAYERS, Esq.

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J. J. STEINITZ, Esq.

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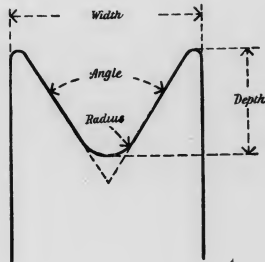
LESLIE S. ROBERTSON, M.Inst.C.E., *Secretary.*

C. LE MAISTRE, A.M.Inst.E.E., *Electrical Assistant Secretary.*

DIMENSIONS
OF
STANDARD TROLLEY WHEEL GROOVE.

The following are the dimensions recommended as the section of the Standard Trolley Wheel Groove:—

Width in inches = $1\frac{3}{8}$
 Depth „ „ = $\frac{3}{4}$
 Radius „ „ = $\frac{7}{32}$
 Angle in degrees = 65°



TENSILE STRENGTH
OF
STANDARD TROLLEY WIRE.

The following figures are recommended as the minimum tensile breaking strengths, in tons per square inch, for Standard Trolley Wire:—

Up to and including 00. S.W.G. not less than 24.
 Above 00. S.W.G. not less than 22.

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**END OF
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